

Mission

To support operations involving nuclear detection test and evaluation with a unique capability to test with special radioactive materials.



Global Security

Radiological/Nuclear Countermeasures Test and Evaluation Complex (RNCTEC)

Introduction

The Nevada National Security Site (NNSS) is the home of the Radiological/Nuclear Countermeasures Test and Evaluation Complex (RNCTEC), a multi-use test and evaluation platform that serves the U.S. Homeland Security mission.

RNCTEC provides the nation with the necessary facilities and capabilities to validate the performance of systems used to protect the United States from the threat of a terrorist radiological or nuclear attack, whether under development or already deployed. RNCTEC provides an environment tailored to customer requirements.

RNCTEC is also used for assessing the ability of nuclear detection systems



to identify/locate radioactive materials. Specific nuclear sources include medical/industrial isotopes, naturally occurring radioactive material and special nuclear material. The goal is to improve the U.S. ability to detect and interdict nuclear payloads intended for illicit use.





Capabilities and expertise include:

- Wireless and hardwired data collection system that is defensible and test-specific
- · Dedicated data collection server
- Commerce simulating loads, including naturally occurring radioactive materials and naturally attenuating materials
- · Barcoding capability for configuration control
- Accelerator pit (concrete lined, 12 feet by 30 feet by 17 feet deep)
- Control room with the capability to provide cameras that deliver a 360-degree view of test bed
- · Enhanced staging capability
- · Simulated land border crossing
- · Paved test area
- Developmental testing facility where artificial intelligence systems, hand-held or other passive types of radiation detectors may be tested



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